Feedback on 360 Degree Leader AZIMUTH Check Assessment Conducted at Fort Clayton, Panama

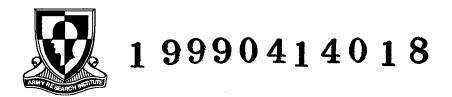
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U.S. Army Research Institute for the Behavioral and Social Sciences

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13. SUPPLEMENTARY NOTES

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14. ABSTRACT (Maximum 200 words):

This report documents military and civilian leaders' reactions to a multi-rater assessment of their leadership behaviors. The 80 targeted leaders were commissioned and non-commission military officers, and GS-9 to GS14 civilian leaders at Fort Clayton, Panama. After completing the Leader Azimuth Check and receiving feedback, they were asked to complete a survey designed to assess 1) perceptions of trust and the fairness in the multi-rater process, 2) reported understanding of the multi-rater process, 3) beliefs about the accuracy and appropriateness of the sources of feedback and 4) self-efficacy and intentions for change in leadership behaviors. An overview of the responses to the survey are recorded in this report. Subordinates were overwhelmingly viewed as the most valuable source of feedback. Eighty three percent reported that they would use their feedback to monitor and develop their leadership. Motivation to change leadership behavior was best predicted by the extent to which leaders believed the feedback they received was new information. Trust in the confidentiality of the multi-rater process was high, as was the reported understanding in the purpose and methods of the 360. Perceptions of fairness and satisfaction were moderate to high. Perceptions of fairness and accuracy predicted satisfaction with the multi-rater process. Other predictors are mentioned in the report. Implications and recommendations are provided.

15. SUBJECT TERMS

Leader Azimuth Check, multi-rater assessment, multi-rater process

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Feedback on a 360 degree Leader AZIMUTH Check assessment conducted at Fort Clayton, Panama

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Feedback on a 360 degree Leader AZIMUTH Check assessment conducted at Fort Clayton, Panama

Introduction

In September of 1998, the Quality Improvement Office of the Theater Support Brigade at Fort Clayton, Panama first contacted the U.S. Army Research Institute at Fort Leavenworth, KS requesting information pertaining to the Leader Azimuth Check instrument. This instrument is based on Army leadership doctrine and is designed to assess leadership behaviors from the perspective of self, subordinates, peers and superiors (See Appendix A). The Quality Improvement Office under Colonel Richard Thomas also requested assistance in the processing and interpretation of 360 degree feedback assessment for their military and civilian employees. The U.S. Army Research Institute responded by agreeing to process data from the Leader Azimuth Check instrument and to provide the interpretation and counseling of the feedback to the leaders who had been selected for assessment.

ARI mailed the surveys to Fort Clayton in October 1998. The Quality Improvement Office was responsible for determining the subordinate, peer, and superior raters for each targeted leader and for distributing the surveys. These individuals were given oral and written instructions for completing the multi-rater assessment. Subsequent inquiries indicated that some bilingual civilian subordinate raters had difficulty with the instructions and the language used in the survey (particularly the reverse coded items, i.e., the undesirable behaviors). It should also be noted that surveys were completed in the context of a 100% drawdown, with most participants expecting to be working somewhere else by July of 1999. Surveys were completed by November 10th and mailed back to ARI for analysis.

Thirty seven commissioned and non-commissioned military officers and approximately 40 civilians completed the Leader Azimuth Check. Generally one superior, at least 2 peers and at least 2 subordinates (in some cases as many as seven peers and six subordinates) also completed the Azimuth for the targeted leader. This feedback was processed and interpreted in December 1998. Not all leaders were available for feedback interpretation (due to temporary duty travel, or recent change in duty station).

Finally, the Quality Improvement Office distributed a follow-up survey intended to assess perceptions about the multi-rater process. These were completed anonymously. The duration of time between feedback interpretation of Azimuth results and the follow-up survey varied. The follow-up was designed to assess 1) perceptions of trust and fairness in the multi-rater process, 2) understanding of the multi-rater process, 3) beliefs about the accuracy and appropriateness of the categorical source of feedback, and 4) self-efficacy and intentions for change in leadership behaviors. (See Appendix B). Due to holiday breaks and TDYs, the follow-up surveys were collected at varying times by the Quality Improvement Office. In January 1999, a total of 54 completed follow-up surveys were received and analyzed by ARI.

Targeted Leaders	Rank and Grade	e Count
Commissioned (Officers	
Colonel		1
LTC		7
Major		9
Captain		7
Non-commissione	d Officers	
Chief Warrant O	fficer 4	2
Command Sergea	nt Major	3
First Sergea	ant	8
**Civilian Leader grade level from C		40

Interesting findings with Azimuth follow-up survey

Subordinates were overwhelmingly viewed as the most valuable source of feedback.

Responses in the follow-up survey indicate that subordinates feedback was the <u>most valuable</u> source of information. A higher percentage of targeted leaders (58%) viewed their subordinates as the most valuable source of information as compared to the 10% who believed superiors and 6% who believed peers were the most valuable source of information.

Subordinates were viewed as an <u>appropriate</u> source for information concerning leadership skills by 93% of the targeted leaders. Superiors were also viewed as appropriate source of information by 92%, however peer feedback was only deemed appropriate by 63% of respondents.

In terms of the accuracy of assessment, 82% believed their subordinates' feedback was an accurate reflection of their leadership. Eighty three percent also believed that their superiors feedback was accurate whereas, only 65% believed peer feedback was accurate.

These data can be interpreted in at least two ways. On the one hand, a number of people have questioned the appropriateness of a multi-rater assessment process within the military. This argument is that encouraging subordinates to assess their superiors may be detrimental to discipline and order. On the other hand, results suggest that at least within this organization, subordinate feedback is not a problem. However, we must remember that over half of the participants (and an unknown proportion of the follow-up respondents) were civilians.

A second interpretation drawn from these data is that positive responses to subordinate feedback (and the somewhat indifferent reception of feedback from other sources) is an accurate reflection of the structure of this organizational unit. Virtually all targeted leaders received assessments from one superior. In the feedback sessions, targeted leaders showed the least interest in superior's feedback; many said "no surprises there." Additionally, there were indications of inflated (non-informative) ratings from superiors compared to other sources. Perhaps targeted leaders are accustomed to mostly positive ratings from superiors, as anything else is unusual given the evaluative setting in which ratings are usually received. Targeted leaders also received input from at least two peers, however, many commented that their peers could not be and were not aware of their daily routines and behaviors due to the diversity in duties and locations. Thus, the input from subordinates, which is not usually readily available was received with the most interest.

Motivation to change leadership behaviors

Between 76% and 79% of respondents reported that participating in the 360 assessment has motivated them to re-examine/change their leadership behavior (depending on how the question was asked). Eighty-three percent report that they will use their feedback to monitor and develop their leadership. Most leaders (83%) felt that there were resources readily available to assist them in self-development. Eighty- three percent also felt capable of implementing the changes which the feedback indicated were necessary, and 83% reported that their current working climate allowed for self development.

Motivation to change was best predicted (using regression analyses) by the extent to which leaders believed the feedback they received was new information. Similarly, those who

deemed feedback to be valuable were more likely to be motivated to change. A third good predictor of motivation to change came from beliefs in one's own ability to implement change (self-efficacy). Finally, 96% of respondents reported understanding how the feedback could be used for further self-development.

Results concerning acceptance of 360

During feedback sessions most leaders seemed receptive and motivated to learn from the feedback. Analysis of the follow-up survey indicated that satisfaction with the multirater process was best predicted by perceptions of fairness, perceptions of accuracy in feedback and an understanding of methods used to collect and report feedback. As expected, there were positive correlations between perceptions of fairness and satisfaction and between perceptions that feedback was accurate and satisfaction. However, the direction of the relation between understanding and satisfaction was rather counterintuitive. We found that higher reported understanding of the multi-rater process was associated with less satisfaction with the 360 process. The particular process or aspect of assessment that led to the lower satisfaction for these individuals is unknown. Nonetheless, most respondents understood how a multi-rater system works and believed it to be fair.

- 76% agreed that 360's are a fair way to assess leadership
- 78% satisfied with 360 process
- 82% felt the concept of multi-rater assessments have potential for Army use
- 91% trusted the confidentiality of the process
- 94% understood the methods for gathering data and figuring averages
- 96% reported adequate knowledge of the 360 process, as a whole

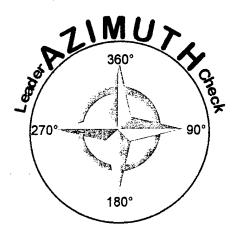
Due to time constraints, we were not able to assist targeted leaders in developing actions plans, however most research indicates the importance of setting goals and following through in this manner. Leaders were advised to follow-up by reviewing their feedback, communicating with those who had provided feedback, and developing specific plans to improve identified developmental needs.

Ideally, a follow-up several months after the initial feedback is recommended. However, since leaders at Fort Clayton are also dealing with draw-down issues, this follow-up was not a viable option for many. Nevertheless, at least two officers requested materials for follow-up.

Implications and Recommendations

The Theater Support Brigade took advantage of a tool that has the potential to initiate and optimize self-development. To leverage this self-development it is recommended that materials (perhaps a reading list) be made available to assist targeted leaders in achieving their developmental goals. Additionally, the chain of command should develop and monitor specific action plans. It is also strongly recommended that more information regarding the purpose and process of the multi-rater assessment be provided up front to all who participate in the process. Finally, all efforts to follow up are encouraged and assessments of the effectiveness of such a process should be conducted.

Appendix A



Leader AZIMUTH Check: A Leader Self-Assessment Instrument

Fort Leavenworth Research Unit U.S. Army Research Institute

PURPOSE: This questionnaire has been designed by the U.S. Army Research Institute and the Center for Army Leadership to obtain information in support of leader self-development. The items in the questionnaire and the feedback based on the items are consistent with current and emerging Army Leadership Doctrine.

CONFIDENTIALITY: The individual ratings and the overall results are provided to the person who is being rated; the information is not provided to anyone in the officer's rating chain. If you are providing ratings on someone else, your input is anonymous.

PT59-96 3/14/97

Leader AZIMUTH Check

Introduction

The Army places special emphasis on self-development to enhance the leadership skills of military and civilian leaders. As part of self-development, it is important for individuals to become aware of their own strengths and weaknesses. You are asked to provide input on the strengths and weaknesses of the designated officer. AZIMUTH provides each person with feedback based on a comparison of their own self-perceptions and others' perceptions of them. This information is needed from you in order to provide complete and high quality information for the rated individuals. YOUR VOLUNTARY PARTICIPATION IS NEEDED. You are encouraged to answer all questions, but failure to respond to any item will not result in any penalty.

The identification numbers and names on the AZIMUTH answer sheets are provided to identify the person being rated. When you are rating someone else your rating is ANONYMOUS; no record is kept of who rates whom. However, if you do not respond to all the questions, then the person being assessed will receive incomplete feedback. If you are doing a self-assessment, rating yourself, you need to be aware that the self-assessment cannot be anonymous; we need to be able to identify you in order to provide you feedback. Only persons involved in collecting or preparing the information for analysis will have access to completed AZIMUTH forms. Any reports of these data will contain only group statistics.

Instructions

If you are using this form for self-assessment: 1) Be sure to read and sign the Privacy Act Statement before proceeding. 2) Fill in your own name and ID number on all mark-sense response forms to be completed by yourself and others. 3) Complete one self form by marking the bubbles which best indicate how well each item describes you.

If you are rating someone else: The person being rated should have already filled in their name and ID number section. Please: 1) Skip the Privacy Act Statement section. 2) Fill in a bubble at the top of page 3 to indicate whether the person being rated is your peer, subordinate or superior. 3) Mark the bubbles which best indicate how well each item describes the person you are rating.

PRIVACY ACT STATEMENT:

Public Law 93-573, called the Privacy Act of 1974, requires that you be informed of the purpose and uses to be made of any information collected.

The Department of the Army may collect the information requested in this questionnaire under the authority of 10 United States Code 137. Providing information in this questionnaire is voluntary. Failure to respond to any particular questions will not result in any penalty. However, if you are providing an assessment of yourself, then failure to provide your ID number will prevent you from receiving feedback for your leadership self-development.

The primary use of the information collected will be to provide the person being rated with feedback for his/her leadership self-development. The aggregate data will also be used by the U. S. Army Research Institute for research and development purposes. Your responses will be held in strict confidence. No responses or summaries, whole or in part, will become a part of any individual's personnel file. This information will not be used by anyone for an evaluation of the person being assessed - it will be used to provide him/her with feedback for

self-development.	
(If you are providing an assessment of someone	else, then please DO NOT enter your name or signature.)
PRINT your name here:	Date:
I authorize use of this information as stated above:	(Sign Your Name Above)

	Identification Number		ING INSTRUCTIONS
Name of person being rated:	00000000	Make solid marks t	lpoint, or felt tip pens. hat fill the response completely.
	$\begin{array}{c} \bullet \bullet$		marks you wish to change.
MARK THIS ITEM FIRST	0000000000	Make no stray mari	ks on this form.
MARK THOTILM TIKE	33333333	CORRECT:	INCORRECT: Ø⊗⊕©
The Person Being Rated	44444444		
is my:	53555555		
○ Self	6666666	· · · · · · · · · · · · · · · · · · ·	Have not observed
O Peer	\mathcal{O}	E)	xtremely Poor Description
SubordinateSuperior	00000000000000000000000000000000000000	Sligh	Very Poor Description tly Poor Description
		_	Good Description
In comparison with others I ha		47 - 1	ood Description
items below describe the pers	on being rated as indicated.	Extremely Goo	•
Communicating			
1. Does not provide			000000
	as so that they are easily underst	00d.	000000
 Keeps others well Listens well 	i inionnea.		000000
5. Tells it like it is.			000000
6. Writes poorly.			000000
Decision Making			
7. Delays decisions	unnecessarily.		000000
	tive solutions to unique problems		000000
	n that conflicts with own initial as	sumptions.	0000000
	isions in a timely manner.	alla far it	0000000 000000
11. Willing to revisit a Motivating	decision when new information of	cans for it.	0000.000
<u> </u>	ive work environment.		0000000
	m, fair, and consistent manner.		0000000
14. Inspires people to	do their best.		0000000
	es good performance of others.		0000000
16. Sets clear perform	nance expectations.		000 000
Developing	ge professional growth.		0000000
18. Is an effective tead	O 1	i	000000
	eling to provide performance fee	dback.	0000000
Provides opportun	nities to learn.		0000000
21. Seldom delegates	authority.		0000000
Building			
	es in organizational/unit activities	•	
23. Encourages coope 24. Encourages organ	eration among team members.		0000000
25 Focuses the organ	nization/unit on mission accompli	shment.	000000
	aluable team members.		0000000
_earning			
	ve when given critical feedback.		000000
	discussion to improve the organi		
	n/unit adapt to changing circumst stic about own personal limitation		0000000
31. Willingly accepts n		· -·	0000000
Planning and Organizing	<u>-</u>		
32. Anticipates how di	fferent plans will look when exec	uted.	000000
33. Develops effective	plans to achieve organizational	goals.	000000
34. Leaves key events			0000000
35. Sets clear priorities		no obongo	000000
30. Unwilling to modify	original plan when circumstance	es change.	0000000
	•		e e e e
DT50.00	9		

Have Not Observed

Extremely Poor Description

Very Poor Description

Slightly Poor Description

Slightly Good Description

Very Good Description

Extremely Good Description

Executing			_				
	mpletes assigned mission				000		
	es not meet mission timeli				000		
39. Do	es whatever is necessary	(within ethical limits	s) to complete the mi	ssion.	000		
40. Mo	nitors execution of plans t	o identify problems.			000		
41. Ref	ines plans to exploit unfor	eseen opportunities	S.		000		0
Assessing							_
42. Acc	curately assesses the orga	anization/unit's strer	ngths.		000		
	curately assesses the orga				000		
	kes organizational change		eason.		000		
	rely conducts after-action		na		000		
	es time to find out what s	upordinates are doi	ng.		000		\cup
Respect			_				
47. Act	ively supports equal oppo	rtunity for all persor	1S.		000		
	ates a climate of fairness		unit.		000		
	cludes some from team ac ats others with respect.	suviues.			000	1	
Selfless Service	ats others with respect.						
•••••	ims credit for others' work				000	000	0
	nsiders the needs of own		nembers.		000		
53. Pla	ces the welfare of the orga	anization before ow	n personal gain.		000		
54. Tak	es advantage of others to	advance own care	er.		000	3	
55. Tak	es privileges not allowed	others.			000	000	\circ
Integrity						Ī	
	naves with questionable e	thics.			000	t t	
57. Der	nonstrates moral courage	(does what is right)).		000		
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	rustworthy.				000	1	
	s the proper ethical exam	ple for others.			000		0
Emotional Stability							
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	iibits wide mood swings. ntains calm disposition ur	ndar etrace			000		
	isesses an even temperar				000		
65 See	ems to behave unpredictal	blv.			000	1	
Other		,-					
	nonstrates appropriate so	ldier skills.			0.00	000	0
	clear thinker.				000		0
	ffective on the job.				000		0
	ntains effective interperso	onal relations with of	thers.		000		
	sically fit for the job.				000		
71. This	s person is a good leader				000		
	s person is someone I wo				000		\circ
	ntained in the AZIMUTH v			~ ^ ^ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Ctron	مايم
○ Strongle Output Description Output Descr		○ Slightly	○ Slightly	○ Agree	•	Strong Agree	
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	ontained in the AZIMUTH	Slightly	Slightly		·· ·····	Strong St	alv
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Appendix B

The Leader AZIMUTH Check Follow-up Survey

MARKING INSTRUCTIONS

- Use a No. 2 pencil only.
- Do not use ink, ballpoint, or felt tip pens.
- Make solid marks that fill the response completely.
- Erase cleanly any marks you wish to change.

CORRECT: ● INCORRECT: ✓ X • '

The purpose of this questionnaire is to obtain the participants' assessment of the multi-rater assessment process. Your responses to this survey are anonymous. Your responses are an important source of feedback for the Army 360 Assessment Initiative. Please rate the extent to which you agree or disagree with the following statements using the scale given at the right.

	Strongly Disagree
•	Disagree
	Agree
	Strongly Agree

- 1. The multi-rater feedback process is a fair way to assess my leadership abilities.
- 2. I am satisfied with the multi-rater feedback process.
- 3. I trust the confidentiality of the multi-rater feedback process.
- 4. I believe the items in the Leader AZIMUTH Check addressed skills relevant to my job.
- 5. I believe that the feedback I received from my subordinates is accurate.
- 6. I believe that the feedback I received from my peers is accurate.
- 7. I believe that the feedback I received from my superiors is accurate.
- 8. I believe that my subordinates are an appropriate source of information concerning my leadership abilities.
- 9. I believe that my peers are an appropriate source of information concerning my leadership abilities.
- 10. I believe that my superiors are an appropriate source of information concerning my leadership abilities.
- 11. Participation in this feedback process has motivated me to re-examine my leadership skills.
- 12. I intend to use the feedback I received to monitor and develop any behaviors identified as developmental areas.
- 13. I believe that there are resources readily available to me to improve my leader skills.
- 14. I believe that I can implement the changes which my feedback indicates are necessary for becoming a better leader.
- 15. I believe that my working climate allows for the self-development of leadership behaviors.
- 16. I have an adequate knowledge and understanding of the mult-rater feedback process.
- 17. I understand how multi-rater feedback can be used for self-development.
- 18. I understand the methods used for gathering data and determining the scores in my feedback.

Bad	Satisfied	Approhoneive	
		Apprehensive	
Comments:			

Please continue responding to the questions by marking the oval next to the response that most closely approximates your opinion.

20. The 360 report provided an accurate assessment of my leadership:

Strongly Agree

Agree

Disagree

Strongly Disagree

21. The 360 Feedback Interpretation Booklet was:

Very helpful - greatly contributed to my understanding of the 360 report.

Somewhat helpful - made some contribution to my understanding of the 360 report.

Not very helpful - did not contribute to my understanding of the 360 report.

No help at all - confused me in attempting to understand the 360 report.

I did not receive a booklet.

22. The source of 360 assessment feedback I valued the most was provided by:

Superiors.

Peers.

Subordinates.

all ratings were equally valued.

not able to compare (only had results from one source).

23. The information I received from the 360 Assessment report was:

A great deal of new information about my leadership.

Some new information about my leadership.

A few interesting findings, but little new information about my leadership.

Nothing that I did not already know about my leadership

24. The information I received from the 360 Assessment report was:

Extremely valuable.

Valuable.

Of limited use.

Of no use.

25. To what extent does the 360 Assessment Report motivate you to change your behavior? Provides a great deal of motivation to change my leadership behavior.

Provides some motivation to change my leadership behavior.

Provides no motivation to change my leadership behavior.

The 360 assessment did not indicate that I should change my leadership behavior.

26. Aside from any administrative problems, the concept of 360 has:

no potential for the Army.

limited potential for the Army.

some potential for the Army.

great potential for the Army.

Appendix C

Panama data - Perceptions of Multi-rater Process Means, Standard deviations, and range

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
RFAIR	54	1.00	4.00	2.7593	.5807
RSATIS				1	
RTRUST	54 50	1.00	4.00 4.00	2.7407	.5887 .6213
RRELEV	53	1.00	1	3.1321	
	54 5.4	1.00	4.00	3.0000	.7004
RSUBACC	54	1.00	4.00	2.8889	.6344
RPACC	54	1.00	4.00	2.6296	.7083
RSUPACC	53	1.00	4.00	2.9811	.6931
RSUBAPP	54	1.00	4.00	3.2037	.6835
peer appropriate	54	1.00	4.00	2.6852	.7968
superior appropriate source	52	1.00	4.00	3.1538	.6066
motivated to re-examine	54	1.00	4.00	2.8333	.6659
use fdbk to monitor	54	1.00	4.00	2.9259	.6399
resources readily available	54	1.00	4.00	3.0000	.5828
can implement change	54	1.00	4.00	2.9630	.6132
working climate allows change	54	1.00	4.00	3.0000	.6443
adequate knowledge of process	54	2.00	4.00	3.1481	.4517
fdbk can be used for self-devel	53	2.00	4.00	3.1698	.4697
understand methods for data collection	53	2.00	4.00	3.0566	.4121
accurate assess. of leader skills	53	.00	3.00	1.6415	.6532
info I rcvd was new	54	.00	3.00	1.4815	.7201
info rcvd was valuable	54	.00	3.00	1.7222	.5961
360 motivate to change	54	.00	3.00	1.7593	.6711
potential of 360 for army	54	.00	3.00	1.0185	.7646
Valid N (listwise)	48				

		RFAIR	RSATIS	RTRUST	RRELEV	RSUBACC
RFAIR	Pearson Correlation	1.000	.752**	.197	.557**	
	Sig. (2-tailed)		.000	.158	.000	.013
	N	54	. 54	53	54	54
RSATIS	Pearson Correlation	.752**	1.000	.149	.503**	.578*
	Sig. (2-tailed)	.000		.288	.000	.000
	N	54	54	53	54	54
RTRUST	Pearson Correlation	.197	.149	1.000	.408**	.183
	Sig. (2-tailed)	.158	.288		.002	.189
	N	53	53	53	53	53
RRELEV	Pearson Correlation	.557**	.503**	.408**	1.000	.340*
	Sig. (2-tailed)	.000	.000	.002	,	.012
	N	54	54	53	54	54
RSUBACC	Pearson Correlation	.336*	.578**	.183	.340*	1.000
	Sig. (2-tailed)	.013	.000	.189	.012	
	N	54	54	53	54	54
RPACC	Pearson Correlation	.513**	.399**	016	.304*	009
	Sig. (2-tailed)	.000	.003	.912	.025	.947
	N	54	54	53	54	54
RSUPACC	Pearson Correlation	.178	.081	.365**	.275*	.038
	Sig. (2-tailed)	.202	.563	.008	.047	.785
	N	53	53	52	53	53
RSUBAPP	Pearson Correlation	.459**	.556**	.384**	.552**	.532**
TOOD/III	Sig. (2-tailed)	.000	.000	.005	.000	.000
	N	54	54	53	54	54
peer appropriate	Pearson Correlation	.363**	.506**	.318*	.338*	.265
poor appropriate	Sig. (2-tailed)	.007	.000	.020	.012	.052
	N	54	54	53	54	54
superior appropriate source	Pearson Correlation	.438**	.387**	.511**	.515**	.346*
ouponor appropriate source	Sig. (2-tailed)	.001	.005	.000	.000	.012
	N	52	52	52	52	52
motivated to re-examine	Pearson Correlation	.236	.225	.101	.243	134
monvator to ro-oxamino	Sig. (2-tailed)	.086	.103	.473	.077	.334
	N	54	54	53	54	54
use fdbk to monitor	Pearson Correlation	.459**	.399**	.217	.421**	.026
GOO TONICO	Sig. (2-tailed)	.000	.003	.119	.002	.853
	N	54	54	53	54	54
resources readily available	Pearson Correlation	.279*	.330*	.421**	.416**	.357**
. 555 di 555 i Gadiiy avallablo	Sig. (2-tailed)	.041	.015	.002	.002	.008
y	N	54	54	53	54	54
can implement change	Pearson Correlation	.345*	.443**	.413**	.527**	.135
out imploment change	Sig. (2-tailed)	.011	.001	.002	.000	.331
	N (2 talled)	54	54	53	54	54
working climate allows	Pearson Correlation	.101	.199	.238	.167	.277*
change	Sig. (2-tailed)	.468	.149	.086	.227	.043
.	N (2 tallou)	54	54	53	54	54
adequate knowledge of	Pearson Correlation	077	137	.146	.179	073
process	Sig. (2-tailed)	.579	.325	.297	.196	.599
	N	.57 9	54	53	54	54

	•		:			
		RFAIR	RSATIS	RTRUST	RRELEV	RSUBACC
fdbk can be used for	Pearson Correlation	.216	.154	.131	.463**	.065
self-devel	Sig. (2-tailed)	.121	.270	.355	.000	.643
	N	53	53	52	53	53
understand methods for	Pearson Correlation	017	174	.050	.071	194
data collection	Sig. (2-tailed)	.902	.214	.724	.613	.164
•	N	53	53	52	53	53
accurate assess. of leader	Pearson Correlation	.671**	.772**	.169	.541**	.385*
skills	Sig. (2-tailed)	.000	.000	.231	.000	.004
	N	53	53	52	53	53
info I rovd was new	Pearson Correlation	.147	.211	019	.150	.037
mio i iova wao now	Sig. (2-tailed)	.289	.126	.895	.280	.792
	N	54	54	53	54	54
info rcvd was valuable	Pearson Correlation	.457**	.490**	.205	.497**	.017
Inio 1014 Was Fallasis	Sig. (2-tailed)	.001	.000	.141	.000	.905
	N	54	54	53	54	54
360 motivate to change	Pearson Correlation	.284*	.317*	.170	.161	.113
600 Mouvale to snange	Sig. (2-tailed)	.037	.020	.224	.246	.415
	N. (2 tames)	54	54	53	54	54
potential of 360 for army	Pearson Correlation	542**	660**	296*	564**	385*
potornial of ood to. Littly	Sig. (2-tailed)	.000	.000	.031	.000	.004
	N	54	54_	53	54	54

		RPACC	RSUPACC	RSUBAPP	peer appropriate	superior appropriate source
RFAIR	Pearson Correlation	.513**		.459**	.363**	.438*
1	Sig. (2-tailed)	.000	.202	.000	.007	.001
	N.	54	53	54	54	52
RSATIS	Pearson Correlation	.399**	.081	.556**	.506**	.387**
NOATIO	Sig. (2-tailed)	.003	.563	.000	.000	.005
	N	.003	.503	54	.000 54	52
RTRUST	Pearson Correlation	016	.365**		.318*	.511**
KIKOSI	Sig. (2-tailed)	.912	.008	.005	.020	.000
·	N	53	.000	53	53	52
RRELEV	Pearson Correlation	.304*	.275*	.552**	.338*	.515**
RRELEV	Sig. (2-tailed)	.025	.047	.000	.012	.000
	N	54	53	54	54	52
RSUBACC	Pearson Correlation	009	.038	.532**	.265	.346*
ROUDACC	Sig. (2-tailed)	.947	.785	.000	.052	.012
	Sig. (z-tailed)	.947	.765	.000	.052	.012
DDACC	Pearson Correlation	1.000	.141	.159	.592**	.228
RPACC		1.000	1		.000	.103
	Sig. (2-tailed)		.314 53	.251 54	54	52
RSUPACC	N Pearson Correlation	.141	1.000	.129	.127	.424**
RSUPACC			1.000		.364	.002
	Sig. (2-tailed)	.314		.357	.304	.002
DOLIDADO	N Pearson Correlation	53	.129	53 1.000	.432**	.492*1
RSUBAPP		.159		1.000	.001	.000
	Sig. (2-tailed)	.251	.357		1	.000
	N Completies	54	53	54	54	.523**
peer appropriate	Pearson Correlation	.592**	.127	.432**	1.000	
	Sig. (2-tailed)	.000	.364	.001		.000
	N O L L L'	54	53	54	54	52
superior appropriate source	Pearson Correlation	.228	.424**	.492**	.523**	1.000
	Sig. (2-tailed)	.103	.002	.000	.000	
	N	52	51	52	52	52
motivated to re-examine	Pearson Correlation	.307*	.199	.325*	.255	.066
•	Sig. (2-tailed)	.024	.152	.017	.063	.642
	N December 1	54	53	54	54	52
use fdbk to monitor	Pearson Correlation	.230	.169	.337*	.175	.179
	Sig. (2-tailed)	.095	.228	.013	.205	.204
	N O I I I	54	53	54	54	52
resources readily available	Pearson Correlation	.183	.094	.379**	.406**	.345*
	Sig. (2-tailed)	.186	.502	.005	.002	.012
·	N	54	53	54	54	52
can implement change	Pearson Correlation	.185	.312*	.288*	.207	.378**
	Sig. (2-tailed)	.180	.023	.034	.132	.006
	N O L II	54	• 53	54	54	52
working climate allows	Pearson Correlation	041	.341*	.129	.184	.260
change	Sig. (2-tailed)	.767	.012	.354	.183	.063
	N	54	53	54	54	52
adequate knowledge of	Pearson Correlation	.116	.009	038	.237	.233
process	Sig. (2-tailed)	.405	.948	.782	.085	.097
	N	54	53	54	54	52

•						superior
			DOUBAGO	RSUBAPP	peer	appropriate source
		RPACC	RSUPACC		appropriate 242	.152
fdbk can be used for	Pearson Correlation	.244	.081	.242	.081	.288
self-devel	Sig. (2-tailed)	.078	.566	.080		
	N	53_	52	53	53	51
understand methods for	Pearson Correlation	.284*	.146	.030	.120	.144
data collection	Sig. (2-tailed)	.039	.303	.833	.391	.312
	N	53	52	53	53	51
accurate assess. of leader	Pearson Correlation	.381**	.261	.510**	.483**	.394*
skills	Sig. (2-tailed)	.005	.062	.000	.000	.004
	N	53	52	53	53	51
info I rcvd was new	Pearson Correlation	.171	.058	.180	.171	038
	Sig. (2-tailed)	.216	.680	.192	.218	.791
	N	54	53	54	54	52
info rcvd was valuable	Pearson Correlation	.333*	.310*	.373**	.329*	.230
	Sig. (2-tailed)	.014	.024	.005	.015	.101
	N	54	53	54	54	52
360 motivate to change	Pearson Correlation	.325*	.158	.150	.244	.095
goo moavato to onange	Sig. (2-tailed)	.017	.258	.279	.076	.504
	N	54	53	54	54	52
potential of 360 for army	Pearson Correlation	335*	183	585**	486**	477*
potential of ood for army	Sig. (2-tailed)	.013	.191	.000	.000	.000
	N	54	53	54	54	52

•				resources	can
S		motivated to	use fdbk to	readily	implement
		re-examine	monitor	available	change
RFAIR	Pearson Correlation	.236	.459**		.345*
	Sig. (2-tailed)	.086	.000	.041	.011
	N	54	54	54	54
RSATIS	Pearson Correlation	.225	.399**	.330*	.443**
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Sig. (2-tailed)	.103	.003	.015	.001
	N	54	54	54	54
RTRUST	Pearson Correlation	.101	.217	.421**	.413**
,,,,,,	Sig. (2-tailed)	.473	.119	.002	.002
	N	53	53	53	53
RRELEV	Pearson Correlation	.243	.421**	.416**	
RRELEV	Sig. (2-tailed)	.077	.002	.002	.000
	- ·	54	.002	54	54
	N Pearson Correlation			.357**	
RSUBACC	• • • • • • • • •	134	.026		.133
·	Sig. (2-tailed)	.334	.853	.008	
	N	54	54	54	54
RPACC	Pearson Correlation	.307*	.230	.183	.185
	Sig. (2-tailed)	.024	.095	.186	.180
	N	54	54	54	54
RSUPACC	Pearson Correlation	.199	.169	.094	.312*
	Sig. (2-tailed)	.152	.228	.502	.023
•	N	53	53	53	53
RSUBAPP ,	Pearson Correlation	.325*	.337*	.379**	.288*
	Sig. (2-tailed)	.017	.013	.005	.034
	N	54	54	54	54
peer appropriate	Pearson Correlation	.255	.175	.406**	.207
poor appropria	Sig. (2-tailed)	.063	.205	.002	.132
	N	54	54	54	54
superior appropriate source	Pearson Correlation	.066	.179	.345*	.378**
Superior appropriate searce	Sig. (2-tailed)	.642	.204	.012	.006
	N	52	52	52	52
motivated to re-examine	Pearson Correlation	1.000	.635**	.097	.447**
monvated to re-examine	Sig. (2-tailed)	1.000	.000	.484	.001
	N ·	54	54	54	54
use fdbk to monitor	Pearson Correlation	.635**	1.000	.354**	.714**
use labk to monitor	Sig. (2-tailed)	.000	1.000	.009	.000
	N (2-tailed)	54	54	54	54
واطوانون والله ومواوا	Pearson Correlation	.097	.354**	1.000	.528**
resources readily available			.009	1.000	.000
,	Sig. (2-tailed)	.484	.009	54	54
	N Barrage Correlation	54	.714**	.528**	1.000
can implement change	Pearson Correlation	.447**		.000	1.000
	Sig. (2-tailed)	.001	.000		
	N O at title	54	54	54	54
working climate allows	Pearson Correlation	088	.183	.402**	.239
change	Sig. (2-tailed)	.527	.185	.003	.082
	N	54	54	54	54
adequate knowledge of	Pearson Correlation	042	092	.072	048
process	Sig. (2-tailed)	.764	.509	.607	.731
	N	54	54	54	54

		motivated to re-examine	use fdbk to monitor	resources readily available	can implement change
fdbk can be used for	Pearson Correlation	.342*	.163	.059	.147
self-devel	Sig. (2-tailed)	.012	.243	.672	.293
	N	53	53	53	53
understand methods for	Pearson Correlation	.035	128	.005	142
data collection	Sig. (2-tailed)	.801	.363	.974	.311
	N	53	53	53	53
accurate assess. of leader	Pearson Correlation	.184	.345*	.250	.394**
skills	Sig. (2-tailed)	.188	.011	.071	.004
	N	53	53	53	53
info I rcvd was new	Pearson Correlation	.446**	.284*	.180	.212
	Sig. (2-tailed)	.001	.038	.193	.124
	N	54	54_	54	54
info rcvd was valuable	Pearson Correlation	.547**	.588**	.163	.488**
	Sig. (2-tailed)	.000	.000	.239	.000
	N	54	54	54	54_
360 motivate to change	Pearson Correlation	.289*	.309*	.289*	.482**
	Sig. (2-tailed)	.034	.023	.034	.000
	N	54	54	54_	54
potential of 360 for army	Pearson Correlation	327*	306*	254	401**
F	Sig. (2-tailed)	.016	.025	.064	.003
	N	54	54	54_	54

		working climate allows change	adequate knowledge of process	fdbk can be used for self-devel	understand methods for data collection
RFAIR	Pearson Correlation	.101	077	.216	017
	Sig. (2-tailed)	.468	.579	.121	.902
	N	54	54	53	53
RSATIS	Pearson Correlation	.199	137	.154	174
, ,	Sig. (2-tailed)	.149	.325	.270	.214
	N	54	54	53	53_
RTRUST	Pearson Correlation	.238	.146	.131	.050
KIROSI	Sig. (2-tailed)	.086	.297	.355	.724
	N	53	53	52	52
555151/	Pearson Correlation	.167	.179	.463**	.071
RRELEV	Sig. (2-tailed)	.227	.196	.000	.613
	• •	.221 54	54	53	53
	N Pearson Correlation	.277*	073	.065	194
RSUBACC	,	ł	.599	.643	.164
	Sig. (2-tailed)	.043		į.	53
	N	54	54	53	.284*
RPACC	Pearson Correlation	041	.116	.244	.039
	Sig. (2-tailed)	.767	.405	.078	
	N	54	54	53	53
RSUPACC	Pearson Correlation	.341*	.009	.081	.146
	Sig. (2-tailed)	.012	.948	.566	.303
	N	53	53	52	52
RSUBAPP	Pearson Correlation	.129	038	.242	.030
	Sig. (2-tailed)	.354	.782	.080	.833
	N	54_	54	53_	53
peer appropriate	Pearson Correlation	.184	.237	.242	.120
poor appropriate	Sig. (2-tailed)	.183	.085	.081	.391
	N	54	54	53	53
superior appropriate source	Pearson Correlation	.260	.233	.152	.144
Suporior appropriate country	Sig. (2-tailed)	.063	.097	.288	.312
	N ,	52	52	51	51
motivated to re-examine	Pearson Correlation	088	042	.342*	.035
Monvated to 10-examine	Sig. (2-tailed)	.527	.764	.012	.801
	N	54	54	53	53
use fdbk to monitor	Pearson Correlation	.183	092	.163	128
use lubk to monitor	Sig. (2-tailed)	.185	.509	.243	.363
	N	54	54	53	53
resources readily available	Pearson Correlation	.402**		.059	.005
	Sig. (2-tailed)	.003	.607	.672	.974
•	N	54	54	53	53
an implement change	Pearson Correlation	.239	048	.147	142
can implement change	Sig. (2-tailed)	.082	.731	.293	.311
	N	54	54	53	53
and a simple allows	Pearson Correlation	1.000	.000	118	069
working climate allows		1.000	1.000	.400	.622
change	Sig. (2-tailed)	54	54	53	53
	N Bearson Correlation	.000	1.000	.634**	
adequate knowledge of	Pearson Correlation	1.000	1.000	.000	.000
process	Sig. (2-tailed)	1	54_	53	53_
	<u>N</u>	54	54		

		working climate allows	adequate knowledge	fdbk can be used for self-devel	understand methods for data collection
	Pearson Correlation	change 118	of process .634**	1.000	.508**
fdbk can be used for self-devel	· careen comment	116 -400	.000	1.000	.000
Sell-devel	Sig. (2-tailed)	53	53	53	52
	N Correlation	069	.488**	.508**	
understand methods for	Pearson Correlation		.000	.000	1.000
data collection	Sig. (2-tailed)	.622	.000	.000	53
	N	53			.007
accurate assess. of leader	Pearson Correlation	.226	191	.099	l
skills	Sig. (2-tailed)	.103	.170	.486	.961
	N	53	53	52	52
info I rcvd was new	Pearson Correlation	.000	049	.142	.034
	Sig. (2-tailed)	1.000	.723	.311	.809
	N	54	54	53	53
info rcvd was valuable	Pearson Correlation	.147	054	.302*	.066
	Sig. (2-tailed)	.288	.696	.028	.639
	N	54	54	53	53
360 motivate to change	Pearson Correlation	.131	316*	120	087
Ood Montain to ending	Sig. (2-tailed)	.345	.020	.392	.535
	N	54	54	53	53
potential of 360 for army	Pearson Correlation	230	172	380**	068
poterniar or occitor army	Sig. (2-tailed)	.095	.214	.005	.626
	N	54	54	53	53

		T		
		accurate		info rcvd
-		assess. of	info I rcvd	was
		leader skills	was new	valuable .457**
RFAIR	Pearson Correlation	.671**	.147	
	Sig. (2-tailed)	.000	.289	.001
	N	53	54	54
RSATIS	Pearson Correlation	.772**	.211	.490**
	Sig. (2-tailed)	.000	.126	.000
	N	53	54	54
RTRUST	Pearson Correlation	.169	019	.205
	Sig. (2-tailed)	.231	.895	.141
	N ,	52	53	53
RRELEV	Pearson Correlation	.541**		.497**
	Sig. (2-tailed)	.000	.280	.000
<u> </u>	N	53	54	54
RSUBACC	Pearson Correlation	.385**	.037	.017
	Sig. (2-tailed)	.004	.792	.905
	Ν	53	54	54
RPACC	Pearson Correlation	.381**	.171	.333*
	Sig. (2-tailed)	.005	.216	.014
	N	53	54	54
RSUPACC	Pearson Correlation	.261	.058	.310*
	Sig. (2-tailed)	.062	.680	.024
	N	52	53	53
RSUBAPP	Pearson Correlation	.510**	.180	.373**
,	Sig. (2-tailed)	.000	.192	.005
	N	53	54	54
peer appropriate	Pearson Correlation	.483**	.171	.329*
poor appropriate	Sig. (2-tailed)	.000	.218	.015
	N	53	54	54
superior appropriate source	Pearson Correlation	.394**	038	.230
Supono: uppropriate	Sig. (2-tailed)	.004	.791	.101
	N ,	51	52	52
motivated to re-examine	Pearson Correlation	.184	.446**	.547**
monvator to 10 oxerimina	Sig. (2-tailed)	.188	.001	.000
	N	53	54	54
use fdbk to monitor	Pearson Correlation	.345*	.284*	.588**
doc lask to monte.	Sig. (2-tailed)	.011	.038	.000
	N	53	54	54
resources readily available	Pearson Correlation	.250	.180	.163
resources readily available	Sig. (2-tailed)	.071	.193	.239
Y	N	53	54	54
can implement change	Pearson Correlation	.394**	.212	.488**
Can implement onlings	Sig. (2-tailed)	.004	.124	.000
	N	53	54	54
working climate allows	Pearson Correlation	.226	.000	.147
change	Sig. (2-tailed)	.103	1.000	.288
	N	53	54	54
adequate knowledge of	Pearson Correlation	191	049	054
process	Sig. (2-tailed)	.170	.723	.696
F	N	53	54_	54

		accurate assess. of leader skills	info I rcvd was new	info rcvd was valuable
fdbk can be used for	Pearson Correlation	.099	.142	.302*
self-devel	Sig. (2-tailed)	.486	.311	.028
	N .	52	53	53
understand methods for	Pearson Correlation	.007	.034	.066
data collection	Sig. (2-tailed)	.961	.809	.639
	N	52	53	53
accurate assess. of leader	Pearson Correlation	1.000	.094	.495**
skills	Sig. (2-tailed)		.501	.000
	N	53	53	53
info I rovd was new	Pearson Correlation	.094	1.000	.361**
\	Sig. (2-tailed)	.501	.	.007
	N	53	54	54
info rcvd was valuable	Pearson Correlation	.495**	.361**	1.000
	Sig. (2-tailed)	.000	.007	
	N	53	54	54
360 motivate to change	Pearson Correlation	.276*	.479**	.254
•	Sig. (2-tailed)	.046	.000	.064
	N	53	54	54
potential of 360 for army	Pearson Correlation	543**	051	485**
	Sig. (2-tailed)	.000	.715	.000
	N	53	54	54

RFAIR	tial of for my542** .000 54660** .000 54296* .031 53564** .000 54385**
RFAIR	for my542** .000 54660** .000 54296* .031 53564** .000 54385**
RFAIR Pearson Correlation Sig. (2-tailed) .284* N .037 RSATIS Pearson Correlation Sig. (2-tailed) .020 N .54 RTRUST Pearson Correlation Sig. (2-tailed) .170 Sig. (2-tailed) .224 N .53 RRELEV Pearson Correlation Sig. (2-tailed) .161 N .54 RSUBACC Pearson Correlation Sig. (2-tailed) .415	542** .000 54 660** .000 54 296* .031 53 564** .000 54 385**
Sig. (2-tailed) .037	.000 54 660** .000 54 296* .031 53 564** .000 54 385**
N 54 RSATIS Pearson Correlation .317* Sig. (2-tailed) .020 N 54 RTRUST Pearson Correlation .170 Sig. (2-tailed) .224 N 53 RRELEV Pearson Correlation .161 Sig. (2-tailed) .246 N 54 RSUBACC Pearson Correlation .113 Sig. (2-tailed) .415	54 660** .000 54 296* .031 53 564** .000 54 385**
RSATIS Pearson Correlation Sig. (2-tailed) .317* N 54 RTRUST Pearson Correlation Sig. (2-tailed) .170 N 53 RRELEV Pearson Correlation Sig. (2-tailed) .161 N 54 RSUBACC Pearson Correlation Sig. (2-tailed) .113 Sig. (2-tailed) .415	660** .000 54296* .031 53564** .000 54385**
Sig. (2-tailed) .020 N 54 RTRUST Pearson Correlation .170 Sig. (2-tailed) .224 N 53 RRELEV Pearson Correlation .161 Sig. (2-tailed) .246 N 54 RSUBACC Pearson Correlation .113 Sig. (2-tailed) .415	.000 54 296* .031 53 564** .000 54 385**
N 54 RTRUST Pearson Correlation .170 Sig. (2-tailed) .224 N 53 RRELEV Pearson Correlation .161 Sig. (2-tailed) .246 N 54 RSUBACC Pearson Correlation .113 Sig. (2-tailed) .415	54 296* .031 53 564** .000 54 385**
RTRUST Pearson Correlation .170 Sig. (2-tailed) .224 N 53 RRELEV Pearson Correlation .161 Sig. (2-tailed) .246 N 54 RSUBACC Pearson Correlation .113 Sig. (2-tailed) .415	296* .031 53 564** .000 54 385**
Sig. (2-tailed) .224	.031 53 564** .000 54 385**
N 53 RRELEV Pearson Correlation .161 Sig. (2-tailed) .246 N 54 RSUBACC Pearson Correlation .113 Sig. (2-tailed) .415	53 564** .000 54 385**
RRELEV Pearson Correlation .161 Sig. (2-tailed) .246 N 54 RSUBACC Pearson Correlation .113 Sig. (2-tailed) .415	564** .000 54 385**
Sig. (2-tailed) .246 N 54 RSUBACC Pearson Correlation .113 Sig. (2-tailed) .415	.000 <u>54</u> 385**
N 54 RSUBACC Pearson Correlation .113 Sig. (2-tailed) .415	54 385**
RSUBACC Pearson Correlation .113 Sig. (2-tailed) .415	385**
Sig. (2-tailed) .415	
Sig. (2-tailed) .415	
1	•
	54
	335*
Sig. (2-tailed) .017	.013
N 54	54
	183
Sig. (2-tailed) .258	.191
N 53	53
	585**
Sig. (2-tailed) .279	.000
N 54	54
	486**
Sig. (2-tailed) .076	.000
N 54	54
superior appropriate source Pearson Correlation .095	477**
Sig. (2-tailed) .504	.000
N 52	52
	327*
Sig. (2-tailed) .034	.016
N 54	54
use fdbk to monitor Pearson Correlation .309* -	306*
Sig. (2-tailed) .023	.025
N 54	54
resources readily available Pearson Correlation .289* -	.254
Sig. (2-tailed) .034	.064
N 54	54
can implement change Pearson Correlation .482**	.401**
·	.003
N 54	54
	.230
	.095
N 54	54
adequate knowledge of Pearson Correlation316* -	.172
	.214
N 54	54

		360 motivate to change	potential of 360 for army
fdbk can be used for	Pearson Correlation	120	380*`
self-devel	Sig. (2-tailed)	.392	.005
	N	53	53
understand methods for	Pearson Correlation	087	068
data collection	Sig. (2-tailed)	.535	.626
	N	53	53
accurate assess. of leader	Pearson Correlation	.276*	543**
skills	Sig. (2-tailed)	.046	.000
·	N	53	53
info I rcvd was new	Pearson Correlation	.479**	051
	Sig. (2-tailed)	.000	.715
	N	54	54
info rcvd was valuable	Pearson Correlation	.254	485**
	Sig. (2-tailed)	.064	.000
	N	54	54
360 motivate to change	Pearson Correlation	1.000	065
	Sig. (2-tailed)	.	.642
	N	54	54
potential of 360 for army	Pearson Correlation	065	1.000
	Sig. (2-tailed)	.642	
	N	54	54

^{**.} Correlation is significant at the 0.01 level (2-tailed).

Processed by U.S. Army Research Institute for the Behavioral and Social Sciences at Fort Leavenworth. Dr. Stanly Halpin, Chief

^{*.} Correlation is significant at the 0.05 level (2-tailed).